

Specifications

FOX T USW 203

NOTE: The FOX T USW 203 is not compatible with the FOX 3G HD-SDI, FOX 3G DVC, or FOX AV models.

NOTE: These units are class 1 laser products. They meet the safety regulations of IEC-60825.

NOTE: *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

Optical fiber interconnection between transmitter or fiber matrix switcher and receiver

Number/type.....	1 or 2 fiber optic
Connectors	2 LC connectors
Operating distance	
Singlemode	30 km (18.75 miles) with singlemode (SM) cables with a SM unit
Multimode	300 m (984') with 62.5 µm OM1 multimode (MM) cables with a MM unit
	1 km (3280') with 50 µm OM2 multimode (MM) cables with a MM unit
	2 km (6561') with 50 µm OM3/OM4 2000 MHz bandwidth laser optimized multimode cable with a MM unit

NOTE: Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength	850 nm for MM units, 1310 nm for SM units
Data rate.....	4.25 Gbps
Maximum pixel clock.....	165 MHz
Transmission power	
Singlemode	-5 dBm, typical
Multimode	-5 dBm, typical
Maximum receiver sensitivity	
Singlemode	-18 dBm, typical
Multimode	-12 dBm, typical
Optical loss budget	
Singlemode	13 dB, maximum
Multimode	7 dB, maximum

Video

Digital	
Resolution range	640x480 up to 1920x1200, 480p, 576p, 720p, 1080i, 1080p @ 60 Hz sampled pixel for pixel; higher resolution 2K (2048x1080) @ 60 Hz undersampled
Formats.....	RGB and YCbCr digital video
Standards.....	DVI 1.0, HDMI compliant, HDCP 1.1, CEA-861E
Analog	
Maximum resolution	Up to 1920x1200 or 1080p @ 60 Hz pixel for pixel
Signal type	VGA-UXGA RGBHV, RGBS, component video
Gain	Unity
Pixel data bit depth.....	8 bits per channel, 3 channels (R, G, B; or YUV)

Video input and loop-through

Digital

Number/signal type	2 HDMI, DVI, or DisplayPort
Connectors	2 female HDMI
Equalization	Up to 50' of cable

Analog

Number/signal type	1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs, component video (YUVp/HDTV) 1 Loop-thru VGA-UXGA RGBHV
Connectors	1 female 15-pin HD
Nominal level.....	1 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	Analog: 0.3 V to 0.75 Vp-p with no offset, terminated
Impedance.....	75 ohms
Horizontal frequency	30 kHz to 100 kHz
Vertical frequency.....	24 Hz to 120 Hz
Return loss	<-40 dB @ 5 MHz

Video output — switched, local

Number/signal type.....	1 HDMI switched output
Connectors	1 female HDMI
Equalization	Up to 50' of cable
Nominal level.....	0.8 Vp-p

Sync

Input type	RGBHV, RGBS, RGsB, RsGsBs, bi- level and tri-level component video (480p, 576p, 720p, 1080i, 1080p)
Input level	2.5 V to 5.0 Vp-p for RGBHV or RGBS 0.6 Vp-p for component video with tri-level sync 0.3 Vp-p for component video with bi-level sync
Input impedance	510 ohms
Polarity.....	Positive or negative (follows input or can be set by user)

Audio

Gain

Range	Adjustable, -18 dB to +10 dB
Default.....	Balanced output: -6 dB
Frequency response	20 Hz to 20 kHz ± 0.5 dB
THD + Noise	0.10% @ 1 kHz at nominal level
S/N	>80 dB at maximum output (unweighted)
Audio bits per sample	18 bits per channel, 2 channels (L, R)
Sampling rate.....	48 kHz

Audio input

Number/signal type.....	1 unbalanced stereo
Connectors	(1) 3.5 mm mini stereo jack
Impedance.....	>10k ohms unbalanced
Nominal level.....	-10 dBV (316 mVrms)
Maximum level	+7 dBV unbalanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Communications

Serial control ports	
Control	1 RS-232, 3.5 mm captive screw connector, 3 pole (rear panel)
Pass-through.....	1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used, "RS-232 Over Fiber", shared with alarm port) (rear panel)
Baud rate and protocol	
Control	9600 baud, 8 data bits, 1 stop bit, no parity
Pass-through.....	9600 to 115,200 baud
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = GND
USB control port.....	1 front panel female mini USB B
USB standards	USB 2.0, low speed
Contact closure	(1) 3.5 mm captive screw connector, 4-pole
Contact closure pin configuration...	1 = input 1, 2 = input 2, 3 = input 3, 4 = GND
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

General

Power supply		External
		Input: 100-240 VAC, 50-60 Hz
		Output: 12 VDC, 1 A, 12 watts
Power consumption		
Device	8.0 watts, 12 VDC	
Device and power supply	9.8 watts, 100-240 VAC, 50-60 Hz	
Temperature/humidity		
Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing		
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing		
Cooling	Convection, vents on side panels	
Thermal dissipation		
Device	25.9 BTU/hr	
Device and power supply	32.1 BTU/hr	
Mounting		
Rack mount.....	Yes, with optional rack shelf	
Furniture mount	Yes, with optional under desk mounting kit	
Enclosure type	Metal	
Enclosure dimensions	1.75" H x 8.75" W x 6.0" D (half rack wide)	
(Depth excludes connectors)		
Product weight	1.0 lbs (0.3 kg) per unit	
Shipping weight	3 lbs (2 kg)	
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Regulatory compliance		
Safety	CE, c-UL, UL	
EMI/EMC.....	CE, C-tick, FCC Class A, ICES, VCCI	
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE	
Warranty	3 years parts and labor	

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

8.1-112114-D7